SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

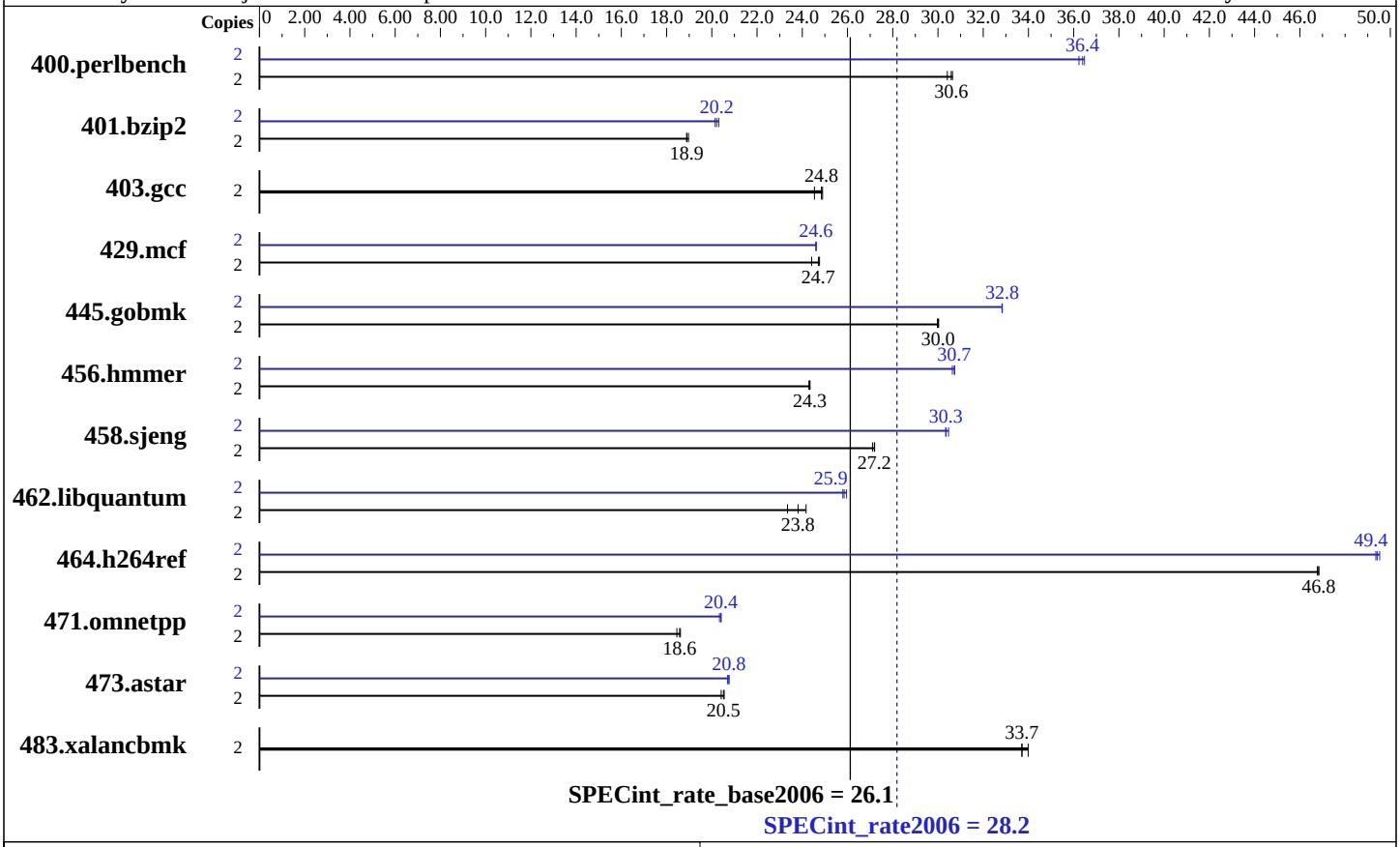
PRIMERGY TX200 S3, Intel Xeon processor 5140, 2.33 GHz

SPECint®_rate2006 = 28.2

SPECint_rate_base2006 = 26.1

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: Jul-2007
Hardware Availability: Jul-2006
Software Availability: Jun-2007



Hardware

CPU Name:	Intel Xeon 5140
CPU Characteristics:	1333 MHz system bus
CPU MHz:	2333
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (4x2 GB DDR2 PC2-5300F, 2 rank, CAS 5-5-5, with ECC)
Disk Subsystem:	Seagate ST336754SS (SAS, 36GB, 15000rpm)
Other Hardware:	None

Software

Operating System:	SUSE LINUX Enterprise Server 10 (x86_64), Kernel 2.6.16.21-0.8-smp
Compiler:	Intel C++ Compiler for IA32/EM64T application, Version 10.0 - Build 20070308, Package-ID: l_cc_p_10.0.023
Auto Parallel:	No
File System:	ext2
System State:	Multiuser, Runlevel 3
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	Smart Heap Library, Version 8.1 binutils-2.17.tar.gz, Version 2.17

SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

PRIMERGY TX200 S3, Intel Xeon processor 5140, 2.33 GHz

SPECint_rate2006 = 28.2

SPECint_rate_base2006 = 26.1

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: Jul-2007
Hardware Availability: Jul-2006
Software Availability: Jun-2007

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	**639**	**30.6**	643	30.4	638	30.6	2	539	36.2	**537**	**36.4**	536	36.5
401.bzip2	2	1022	18.9	**1021**	**18.9**	1017	19.0	2	950	20.3	**955**	**20.2**	958	20.1
403.gcc	2	656	24.5	**648**	**24.8**	647	24.9	2	656	24.5	**648**	**24.8**	647	24.9
429.mcf	2	747	24.4	737	24.8	**738**	**24.7**	2	741	24.6	**741**	**24.6**	741	24.6
445.gobmk	2	700	30.0	699	30.0	**699**	**30.0**	2	639	32.8	639	32.8	**639**	**32.8**
456.hmmer	2	**767**	**24.3**	768	24.3	767	24.3	2	609	30.6	607	30.7	**607**	**30.7**
458.sjeng	2	890	27.2	893	27.1	**890**	**27.2**	2	794	30.5	797	30.3	**797**	**30.3**
462.libquantum	2	1775	23.3	**1740**	**23.8**	1715	24.2	2	1607	25.8	**1603**	**25.9**	1596	26.0
464.h264ref	2	946	46.8	**945**	**46.8**	945	46.8	2	897	49.4	**896**	**49.4**	894	49.5
471.omnetpp	2	677	18.5	**673**	**18.6**	672	18.6	2	615	20.3	**613**	**20.4**	612	20.4
473.astar	2	688	20.4	683	20.5	**684**	**20.5**	2	676	20.8	679	20.7	**677**	**20.8**
483.xalancbmk	2	**409**	**33.7**	409	33.7	406	34.0	2	**409**	**33.7**	409	33.7	406	34.0

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

```
All binaries were built with 32-bit Intel compiler except:
401.bzip2 and 456.hmmer in peak were built with 64-bit Intel
compiler by changing the path for include and library files.

BIOS configuration:
Adjacent Sector Prefetch = Disable

For information about Fujitsu Siemens Computers please see:
http://www.fujitsu-siemens.com
```

Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

Base Portability Flags

400.perlbench: `-DSPEC_CPU_LINUX_IA32`
462.libquantum: `-DSPEC_CPU_LINUX`

Continued on next page

Base Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-xT -O3 -ipo -no-prec-div -ansi-alias
-L/opt/SmartHeap_8_1/lib -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc

401.bzip2: /opt/intel/cce/10.0.023/bin/icc
-I/opt/intel/cce/10.0.023/include
-L/opt/intel/cce/10.0.023/lib

456.hmmer: /opt/intel/cce/10.0.023/bin/icc
-I/opt/intel/cce/10.0.023/include
-L/opt/intel/cce/10.0.023/lib

C++ benchmarks:
icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: `-prof_gen`(pass 1) `-prof_use`(pass 2) `-fast`

401.bzip2: `-fast`

403.gcc: `basepeak = yes`

429.mcf: `-prof_gen`(pass 1) `-prof_use`(pass 2) `-fast -prefetch -L/opt/SmartHeap_8_1/lib -lsmartheap`

445.gobmk: `Same as 400.perlbench`

456.hmmer: `-prof_gen`(pass 1) `-prof_use`(pass 2) `-fast -unroll2`

458.sjeng: `-prof_gen`(pass 1) `-prof_use`(pass 2) `-fast -unroll4`

462.libquantum: `-prof_gen`(pass 1) `-prof_use`(pass 2) `-fast -prefetch -opt-streaming-stores always`

464.h264ref: `-prof_gen`(pass 1) `-prof_use`(pass 2) `-fast -unroll2 -ansi-alias`

C++ benchmarks:

471.omnetpp: `-prof_gen`(pass 1) `-prof_use`(pass 2) `-fast -ansi-alias -L/opt/SmartHeap_8_1/lib -lsmartheap`

473.astar: `Same as 471.omnetpp`

483.xalancbmk: `basepeak = yes`

Peak Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/FSC_Intel_flags.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/FSC_Intel_flags.xml`

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:28:32 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 21 August 2007.